

0590
0927

#10



OIPE

ENTERED

RAW SEQUENCE LISTING

DATE: 09/27/2002

PATENT APPLICATION: US/10/010,942B

TIME: 13:47:23

Input Set : A:\SeqlistCorrected.txt

Output Set: N:\CRF4\09272002\J010942B.raw

3 <110> APPLICANT: Basi, Guriq
 4 Saldanha, Jose
 5 Yednock, Ted
 7 <120> TITLE OF INVENTION: HUMANIZED ANTIBODIES THAT RECOGNIZE
 8 BETA AMYLOID PEPTIDE
 10 <130> FILE REFERENCE: ELN-002
 12 <140> CURRENT APPLICATION NUMBER: US 10/010,942B
 C--> 13 <141> CURRENT FILING DATE: 2002-12-06
 15 <150> PRIOR APPLICATION NUMBER: US 60/251,892
 16 <151> PRIOR FILING DATE: 2000-12-06
 18 <160> NUMBER OF SEQ ID NOS: 63
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 396
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Mus musculus
 27 <220> FEATURE:
 28 <221> NAME/KEY: CDS
 29 <222> LOCATION: (1)...(396)
 31 <221> NAME/KEY: sig_peptide
 32 <222> LOCATION: (1)...(60)
 W--> 34 <400> 1
 35 atg atg agt cct gcc cag ttc ctg ttt ctg tta gtg ctc tgg att cgg 48
 36 Met Met Ser Pro Ala Gln Phe Leu Phe Leu Leu Val Leu Trp Ile Arg
 37 -20 -15 -10 -5
 39 gaa acc aac ggt tat gtt gtg atg acc cag act cca ctc act ttg tcg 96
 40 Glu Thr Asn Gly Tyr Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser
 41 1 5 10
 43 gtt acc att gga caa cca gcc tcc atc tct tgc aag tca agt cag agc 144
 44 Val Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
 45 15 20 25
 47 ctc tta gat agt gat gga aag aca tat ttg aat tgg ttg tta cag agg 192
 48 Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
 49 30 35 40
 51 cca ggc cag tct cca aag cgc cta atc tat ctg gtg tct aaa ctg gac 240
 52 Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp
 53 45 50 55 60
 55 tct gga gtc cct gac agg ttc act ggc agt gga tca ggg aca gat ttt 288
 56 Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
 57 65 70 75
 59 aca ctg aaa atc agc aga ata gag gct gag gat ttg gga ctt tat tat 336
 60 Thr Leu Lys Ile Ser Arg Ile Glu Ala Glu Asp Leu Gly Leu Tyr Tyr
 61 80 85 90

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/010,942B

DATE: 09/27/2002

TIME: 13:47:23

Input Set : A:\SeqlistCorrected.txt

Output Set: N:\CRF4\09272002\J010942B.raw

```

63 tgc tgg caa ggt aca cat ttt cct cgg acg ttc ggt gga ggc acc aag      384
64 Cys Trp Gln Gly Thr His Phe Pro Arg Thr Phe Gly Gly Gly Thr Lys
65          95                      100                      105      396
67 ctg gaa atc aaa
68 Leu Glu Ile Lys
69      110
72 <210> SEQ ID NO: 2
73 <211> LENGTH: 132
74 <212> TYPE: PRT
75 <213> ORGANISM: Mus musculus
77 <220> FEATURE:
78 <221> NAME/KEY: SIGNAL
79 <222> LOCATION: (1)...(20)
81 <400> SEQUENCE: 2
82 Met Met Ser Pro Ala Gln Phe Leu Phe Leu Leu Val Leu Trp Ile Arg
83 -20          -15          -10          -5
84 Glu Thr Asn Gly Tyr Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser
85          1          5          10
86 Val Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
87          15          20          25
88 Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg
89          30          35          40
90 Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp
91 45          50          55          60
92 Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe
93          65          70          75
94 Thr Leu Lys Ile Ser Arg Ile Glu Ala Glu Asp Leu Gly Leu Tyr Tyr
95          80          85          90
96 Cys Trp Gln Gly Thr His Phe Pro Arg Thr Phe Gly Gly Gly Thr Lys
97          95          100          105
98 Leu Glu Ile Lys
99      110
102 <210> SEQ ID NO: 3
103 <211> LENGTH: 414
104 <212> TYPE: DNA
105 <213> ORGANISM: Mus musculus
107 <220> FEATURE:
108 <221> NAME/KEY: CDS
109 <222> LOCATION: (1)...(414)
111 <221> NAME/KEY: sig_peptide
112 <222> LOCATION: (1)...(57)
W--> 114 <400> 3
115 atg aac ttc ggg ctc agc ttg att ttc ctt gtc ctt gtt tta aaa ggt      48
116 Met Asn Phe Gly Leu Ser Leu Ile Phe Leu Val Leu Val Leu Lys Gly
117          -15          -10          -5
119 gtc cag tgt gaa gtg aag ctg gtg gag tct ggg gga ggc tta gtg aag      96
120 Val Gln Cys Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys
121          1          5          10
123 cct gga gcg tct ctg aaa ctc tcc tgt gca gcc tct gga ttc act ttc      144

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/010,942B

DATE: 09/27/2002

TIME: 13:47:23

Input Set : A:\SeqlistCorrected.txt

Output Set: N:\CRF4\09272002\J010942B.raw

```

124 Pro Gly Ala Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
125      15                20                25
127 agt aac tat ggc atg tct tgg gtt cgc cag aat tca gac aag agg ctg 192
128 Ser Asn Tyr Gly Met Ser Trp Val Arg Gln Asn Ser Asp Lys Arg Leu
129 30                35                40                45
131 gag tgg gtt gca tcc att agg agt ggt ggt ggt aga acc tac tat tca 240
132 Glu Trp Val Ala Ser Ile Arg Ser Gly Gly Gly Arg Thr Tyr Tyr Ser
133      50                55                60
135 gac aat gta aag ggc cga ttc acc atc tcc aga gag aat gcc aag aac 288
136 Asp Asn Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Ala Lys Asn
137      65                70                75
139 acc ctg tac ctg caa atg agt agt ctg aag tct gag gac acg gcc ttg 336
140 Thr Leu Tyr Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Leu
141      80                85                90
143 tat tat tgt gtc aga tat gat cac tat agt ggt agc tcc gac tac tgg 384
144 Tyr Tyr Cys Val Arg Tyr Asp His Tyr Ser Gly Ser Ser Asp Tyr Trp
145      95                100                105
147 ggc cag ggc acc act gtc aca gtc tcc tca 414
148 Gly Gln Gly Thr Thr Val Thr Val Ser Ser
149 110                115
152 <210> SEQ ID NO: 4
153 <211> LENGTH: 138
154 <212> TYPE: PRT
155 <213> ORGANISM: Mus musculus
157 <220> FEATURE:
158 <221> NAME/KEY: SIGNAL
159 <222> LOCATION: (1)...(19)
161 <400> SEQUENCE: 4
162 Met Asn Phe Gly Leu Ser Leu Ile Phe Leu Val Leu Val Leu Lys Gly
163      -15                -10                -5
164 Val Gln Cys Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys
165      1                5                10
166 Pro Gly Ala Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
167      15                20                25
168 Ser Asn Tyr Gly Met Ser Trp Val Arg Gln Asn Ser Asp Lys Arg Leu
169 30                35                40                45
170 Glu Trp Val Ala Ser Ile Arg Ser Gly Gly Gly Arg Thr Tyr Tyr Ser
171      50                55                60
172 Asp Asn Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Ala Lys Asn
173      65                70                75
174 Thr Leu Tyr Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Leu
175      80                85                90
176 Tyr Tyr Cys Val Arg Tyr Asp His Tyr Ser Gly Ser Ser Asp Tyr Trp
177      95                100                105
178 Gly Gln Gly Thr Thr Val Thr Val Ser Ser
179 110                115
182 <210> SEQ ID NO: 5
183 <211> LENGTH: 132
184 <212> TYPE: PRT

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/010,942B

DATE: 09/27/2002

TIME: 13:47:23

Input Set : A:\SeqlistCorrected.txt

Output Set: N:\CRF4\09272002\J010942B.raw

```

185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <221> NAME/KEY: SIGNAL
189 <222> LOCATION: (1)...(20)
191 <223> OTHER INFORMATION: humanized 3D6 light chain variable region
193 <400> SEQUENCE: 5
194 Met Met Ser Pro Ala Gln Phe Leu Phe Leu Leu Val Leu Trp Ile Arg
195 -20 -15 -10 -5
196 Glu Thr Asn Gly Tyr Val Val Met Thr Gln Ser Pro Leu Ser Leu Pro
197 1 5 10
198 Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser
199 15 20 25
200 Leu Leu Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Lys
201 30 35 40
202 Pro Gly Gln Ser Pro Gln Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp
203 45 50 55 60
204 Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
205 65 70 75
206 Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr
207 80 85 90
208 Cys Trp Gln Gly Thr His Phe Pro Arg Thr Phe Gly Gln Gly Thr Lys
209 95 100 105
210 Val Glu Ile Lys
211 110
214 <210> SEQ ID NO: 6
215 <211> LENGTH: 125
216 <212> TYPE: PRT
217 <213> ORGANISM: Homo sapiens
219 <220> FEATURE:
220 <221> NAME/KEY: SIGNAL
221 <222> LOCATION: (1)...(13)
223 <400> SEQUENCE: 6
224 Met Gly Leu Leu Met Leu Trp Val Ser Gly Ser Ser Gly Asp Ile Val
225 -10 -5 1
226 Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly Glu Pro Ala
227 5 10 15
228 Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr
229 20 25 30 35
230 Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu
231 40 45 50
232 Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro Asp Arg Phe
233 55 60 65
234 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val
235 70 75 80
236 Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala Leu Gln Thr
237 85 90 95
238 Pro Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
239 100 105 110
241 <210> SEQ ID NO: 7

```

RAW SEQUENCE LISTING

DATE: 09/27/2002

PATENT APPLICATION: US/10/010,942B

TIME: 13:47:23

Input Set : A:\SeqlistCorrected.txt

Output Set: N:\CRF4\09272002\J010942B.raw

```

242 <211> LENGTH: 100
243 <212> TYPE: PRT
244 <213> ORGANISM: Homo sapiens
246 <400> SEQUENCE: 7
247 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
248 1 5 10 15
249 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
250 20 25 30
251 Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
252 35 40 45
253 Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
254 50 55 60
255 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
256 65 70 75 80
257 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
258 85 90 95
259 Leu Gln Thr Pro
260 100
263 <210> SEQ ID NO: 8
264 <211> LENGTH: 138
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Humanized 3D6 heavy chain variable region
W--> 271 <221> NAME/KEY: SIGNAL
272 <222> LOCATION: (1)...(19)
W--> 274 <400> 8
275 Met Asn Phe Gly Leu Ser Leu Ile Phe Leu Val Leu Val Leu Lys Gly
276 -15 -10 -5
277 Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
278 1 5 10
279 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
280 15 20 25
281 Ser Asn Tyr Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
282 30 35 40 45
283 Glu Trp Val Ala Ser Ile Arg Ser Gly Gly Gly Arg Thr Tyr Tyr Ser
284 50 55 60
285 Asp Asn Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
286 65 70 75
287 Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu
288 80 85 90
289 Tyr Tyr Cys Val Arg Tyr Asp His Tyr Ser Gly Ser Ser Asp Tyr Trp
290 95 100 105
291 Gly Gln Gly Thr Leu Val Thr Val Ser Ser
292 110 115
295 <210> SEQ ID NO: 9
296 <211> LENGTH: 121
297 <212> TYPE: PRT
298 <213> ORGANISM: Homo sapiens

```

VERIFICATION SUMMARY

DATE: 09/27/2002

PATENT APPLICATION: US/10/010,942B

TIME: 13:47:24

Input Set : A:\SeqlistCorrected.txt

Output Set: N:\CRF4\09272002\J010942B.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:34 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:114 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:271 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:274 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8
L:381 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:384 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12
L:417 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13
L:497 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:15